

## SEQUENCE LISTING



MASUDA, ESTEBAN

<120> METHODS OF SCREENING CYCLIC PEPTIDES AND  
IDENTIFYING TARGETS THEREFOR

&lt;130&gt; RIGL-023

<140> 10/533,144  
<141> 2005-04-27<150> US03/27370  
<151> 2003-08-30<150> 60/407,385  
<151> 2002-08-30

&lt;160&gt; 4

&lt;170&gt; FastSEQ for Windows Version 4.0

<210> 1  
<211> 1227  
<212> DNA  
<213> Artificial Sequence<220>  
<223> synthetic oligonucleotide<220>  
<221> CDS  
<222> (1)...(1227)<220>  
<221> misc\_feature  
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atg gag agc ggc agc ccc gag atc gag aag ctg agt cag agc gac atc 48  
Met Glu Ser Gly Ser Pro Glu Ile Glu Lys Leu Ser Gln Ser Asp Ile  
1 5 10 15tac tgg gac agc atg gtg agc atc acc gag acc ggc gtg gag gag gtg 96  
Tyr Trp Asp Ser Met Val Ser Ile Thr Glu Thr Gly Val Glu Glu Val  
20 25 30ttc gac ctg acc gtg ccc ggc ccc cac aac ttc gtg gcc aac gac atc 144  
Phe Asp Leu Thr Val Pro Gly Pro His Asn Phe Val Ala Asn Asp Ile  
35 40 45atc gtc cac aac agc nnn nnn nnn tgc atc agc ggc gac agc ctg 192  
Ile Val His Asn Ser Xaa Xaa Xaa Cys Ile Ser Gly Asp Ser Leu  
50 55 60atc agc ctg gcc agc acc ggc aag agg gtg agc atc aag gac ctg ctg 240  
Ile Ser Leu Ala Ser Thr Gly Lys Arg Val Ser Ile Lys Asp Leu Leu  
65 70 75 80

gac gag aag gac ttc gag atc tgg gcc atc aac gag cag acc atg aag Asp Glu Lys Asp Phe Glu Ile Trp Ala Ile Asn Glu Gln Thr Met Lys	85	90	95	288	
cta gag agc gcc aag gtg agc agg gtg ttc tgc acc ggc aag aag cta Leu Glu Ser Ala Lys Val Ser Arg Val Phe Cys Thr Gly Lys Lys Leu	100	105	110	336	
gtg tac atc cta aga acc agg cta ggc agg acc atc aag gcc acc gcc Val Tyr Ile Leu Arg Thr Arg Leu Gly Arg Thr Ile Lys Ala Thr Ala	115	120	125	384	
aac cac agg ttc cta acc atc gac ggc tgg aag agg cta gac gag cta Asn His Arg Phe Leu Thr Ile Asp Gly Trp Lys Arg Leu Asp Glu Leu	130	135	140	432	
agc cta aag gag cac atc gcc cta ccc cg <sup>g</sup> aag cta gag agc agc Ser Leu Lys Glu His Ile Ala Leu Pro Arg Lys Leu Glu Ser Ser Ser	145	150	155	160	480
cta cag cta ggc ctc cgc ggc cag atc gat gtg agc aag ggc gag gag Leu Gln Leu Gly Leu Arg Gly Gln Ile Asp Val Ser Lys Gly Glu Glu	165	170	175	528	
ctg ttc acc ggg gtg gtg ccc atc ctg gtc gag ctg gac ggc gac gta Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val	180	185	190	576	
aac ggc cac aag ttc agc gtg tcc ggc gag ggc gag ggc gat gcc acc Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr	195	200	205	624	
tac ggc aag ctg acc ctg aag ttc atc tgc acc acc ggc aag ctg ccc Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro	210	215	220	672	
gtg ccc tgg ccc acc ctc gtg acc acc ctg acc cac ggc gtg cag tgc Val Pro Trp Pro Thr Leu Val Thr Thr Leu Thr His Gly Val Gln Cys	225	230	235	240	720
ttc agc cgc tac ccc gac cac atg aag cag cac gac ttc ttc aag tcc Phe Ser Arg Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser	245	250	255	768	
gcc atg ccc gaa ggc tac gtc cag gag cgc acc atc ttc ttc aag gac Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp	260	265	270	816	
gac ggc aac tac aag acc cgc gcc gag gtg aag ttc gag ggc gac acc Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr	275	280	285	864	
ctg gtg aac cgc atc gag ctg aag ggc atc gac ttc aag gag gac ggc Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly	290	295	300	912	
aac atc ctg ggg cac aag ctt gag tac aac ttc aac agc cac aac gtg Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Phe Asn Ser His Asn Val	305	310	315	960	

tat atc atg gcc gac aag cag aag aac ggc atc aag gcc aac ttc aag Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Ala Asn Phe Lys	325	330	335	1008
atc cgc cac aac atc gag gac gga tcc gtg cag ctc gcc gac cac tac Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr	340	345	350	1056
cag cag aac acc cca att ggc gac ggg ccc gtg ctg ctg ccc gac aac Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn	355	360	365	1104
cac tac ctg agc acc cag agc gct ctt tcg aaa gac ccc aac gag aag His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys	370	375	380	1152
cgc gat cat atg gtc ctg ctc gag ttc gtg acc gcc gcc ggg atc act Arg Asp His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr	385	390	395	1200
ctc ggc atg gac gag ctg tac aag taa Leu Gly Met Asp Glu Leu Tyr Lys *	405			1227

<210> 2  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> VARIANT  
<222> 54, 55, 56, 57  
<223> Xaa = Any Amino Acid

<220>  
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Tyr Trp Asp Ser Met Val Ser Ile Thr Glu Thr Gly Val Glu Glu Val  
20 25 30  
Phe Asp Leu Thr Val Pro Gly Pro His Asn Phe Val Ala Asn Asp Ile  
35 40 45  
Ile Val His Asn Ser Xaa Xaa Xaa Cys Ile Ser Gly Asp Ser Leu  
50 55 60  
Ile Ser Leu Ala Ser Thr Gly Lys Arg Val Ser Ile Lys Asp Leu Leu  
65 70 75 80  
Asp Glu Lys Asp Phe Glu Ile Trp Ala Ile Asn Glu Gln Thr Met Lys  
85 90 95  
Leu Glu Ser Ala Lys Val Ser Arg Val Phe Cys Thr Gly Lys Leu  
100 105 110  
Val Tyr Ile Leu Arg Thr Arg Leu Gly Arg Thr Ile Lys Ala Thr Ala  
115 120 125  
Asn His Arg Phe Leu Thr Ile Asp Gly Trp Lys Arg Leu Asp Glu Leu  
130 135 140  
Ser Leu Lys Glu His Ile Ala Leu Pro Arg Lys Leu Glu Ser Ser Ser  
145 150 155 160  
Leu Gln Leu Gly Leu Arg Gly Gln Ile Asp Val Ser Lys Gly Glu Glu  
165 170 175

Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp Gly Asp Val  
180 185 190  
Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly Asp Ala Thr  
195 200 205  
Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly Lys Leu Pro  
210 215 220  
Val Pro Trp Pro Thr Leu Val Thr Thr Leu Thr His Gly Val Gln Cys  
225 230 235 240  
Phe Ser Arg Tyr Pro Asp His Met Lys Gln His Asp Phe Phe Lys Ser  
245 250 255  
Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe Phe Lys Asp  
260 265 270  
Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu Gly Asp Thr  
275 280 285  
Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys Glu Asp Gly  
290 295 300  
Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Phe Asn Ser His Asn Val  
305 310 315 320  
Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Ala Asn Phe Lys  
325 330 335  
Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr  
340 345 350  
Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn  
355 360 365  
His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys  
370 375 380  
Arg Asp His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr  
385 390 395 400  
Leu Gly Met Asp Glu Leu Tyr Lys  
405

<210> 3  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> synthetic peptide

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Gly Ser Gly Gly Ser  
1 5

<210> 4  
<211> 4  
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<220>  
<223> synthetic peptide

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Ala Gly Pro Ile  
1